

DAMAGE SURVEY REPORT (DSR)
Emergency Watershed Protection Program – Recovery

Section 1A

Date of Report: 10/20/05

DSR Number: 019-05-037R Project Number: Moss Gully, Cha

NRCS Entry Only

Eligible: YES _____ NO _____

Approved: YES _____ NO _____

Funding Priority Number (from Section 4) _____

Limited Resource Area: YES _____ NO _____

Section 1B Sponsor

Sponsor Name: Gravity Drainage Board GDD 8 W 1

Address: 2841 Goss Road

City/State/Zip: Lake Charles, LA 70611

Telephone Number: (337) -855-4388 Fax: (337) -855-4388

Section 1C Site Location Information

County: Calcasieu Parish State: LA Congressional District: 06

Latitude: Start: N 30.3035 End: N30.2932 Longitude: Start: W 93.2193 End: W93.2142

Section: 4, 5, 6, and 8 Township: 9 S Range: 8 W

UTM Coordinates: _____

Drainage Name: Moss Gully/ Channel 15

Reach: Park Road to 600 feet downstream of Bozo Road in Moss Bluff

Damage Description: Trees, branches and other debris in channel causing blockage and increased flooding to homes and schools

Section 1D Site Evaluation

All answers in this Section must be YES in order to be eligible for EWP assistance.

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?*	X		Hurricane Rita wind and storm damage
Recovery measures would be for runoff retardation or soil erosion prevention?*	X		Reduce upstream flooding , streambank erosion, and scour erosion
Threat to life and/or property?*	X		Reduce flooding upstream of channel blockage where homes and school is located
Event caused a sudden impairment in the watershed?*	X		Hurricane deposited debris in channel that will likely cause flooding after next major rainfall event
Imminent threat was created by this event?**	X		Flood damage to homes and school likely after next major rainfall event.
For structural repairs, not repaired twice within ten years?***	X		No evidence of repairs to pipes culverts or roads in past several years
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action? (Go to pages 3, 4, 5 and 6 ***)	X		See attached documentation
Proposed action technically viable? (Go to Page 9 ***)	X		See attached documentation

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the EWP program and its possible effects? YES X NO _____

Comments: Local drainage district has been consulted _____

* Statutory

** Regulation

*** DSR Pages 3 through 6 and 9 are required to support the decisions recorded on this summary page. If additional space is needed on this or any other page in this form, add appropriate pages. 1 of 14

Approved 7/2005

Section 1E Proposed Action

Describe the preferred alternative from Findings: Section 5 A:

Remove downed trees, branches and other debris from one side of channel and haul debris from site to approved land fill

Total installation cost identified in this DSR: Section 3: \$109,150

Section 1F NRCS State Office Review and Approval

Reviewed By: _____ Date Reviewed: _____
State EWP Program Manager

Approved By: _____ Date Approved: _____
State Conservationist

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, (5 U.S.C. 552a) and the Paperwork Reduction Act of 1995, as amended. The authority for requesting the following information is 7 CFR 624 (EWP) and Section 216 of the Flood Control Act of 1950, Public Law 81-516, 33 U.S.C. 701b-1; and Section 403 of the Agricultural Credit Act of 1978, Public Law 95-334, as amended by Section 382, of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief or NRCS on state, tribal and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measure(s) determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant the applicable program authorities. Once signed by the sponsor, this information may not be provided to other agencies. IRS, Department of Justice, or other State or Federal Law Enforcement agencies, and in response to a court or administrative tribunal.

The provisions of criminal and civil fraud statutes, including 18 U.S.C. 286, 287, 371, 641, 651, 1001; 15 U.S.C. 714m; and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0030. The time required to complete this information collection is estimated to average 117/1.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, field reviews, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes: namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15, 15a, and 15b), which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

Section 2 Environmental Evaluation

2A Resource Concerns	2B Existing Condition	2C Alternatives and Effects		
		Proposed Action	No Action	Alternative
		Remove tree logs and debris from one side of channel and haul to landfill	Leave tree logs and debris in channel	Remove tree logs and debris from both sides of channel
		2D Effects of Alternatives		
Soil				
Bank Erosion	Stable except for exposed soil around uprooted trees on stream bank	Cause temporary increase in bank erosion from removal of root mass and construction activities on one side of channel. Long term stabilization of banks from reduced flooding and re-establishment of vegetation	Erosion from root mass will stabilize, but increased upstream flooding will cause additional bank erosion and undercutting	Cause temporary increase in bank erosion from removal of root mass and construction activities on both sides of channel. Long term stabilization of banks from reduced flooding and re-establishment of vegetation
Compaction	No compaction	Heavy equipment will cause moderate soil compaction at access points on one side of channel	No compaction	Heavy equipment will cause some soil compaction at access points on both sides of channel
Water				
Flooding	Property upstream of debris blockage is subject to damages from flooding after next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events	Property upstream of debris blockage will continue to be subject to damages from next heavy rainfall event	Upstream flooding will be reduced and damages to property will be minimized from heavy rainfall events
Inadequate outlets	Debris is blocking outlets	Outlets will be opened, capacities will be increased and flooding will be reduced	Debris will continue to accumulate and further reduce outlet capacities	Outlets will be opened, capacities will be increased and flooding will be reduced
Excessive Sediments and turbidity	Stream flow is minimal and no sediment problems will occur until next heavy rainfall event. Water in stream is clear above and becomes more turbid in downstream reaches	Disturbance from heavy equipment and remove of root mass will cause short term increase in sediment and turbidity, but will reduce long term impacts by reducing sediments and turbidity caused by flooding	Sediments and turbidity will increase as a result of stream bank erosion and scour damage following next heavy rainfall event	Disturbance from heavy equipment and remove of root mass will cause short term increase in sediment and turbidity, but will reduce long term impacts by reducing sediments and turbidity caused by flooding
Stream health (including SVAP))				
Air				
Particulate Matter less than PM 10	No particulate matter is being generated by debris in channel	Will cause slight increase in particulate matter as result of equipment and removal, but will remain below 10mm and return to pre-removal conditions after work is completed	No change in particulate matter	Will cause slight increase in particulate matter as result of equipment and removal, but will remain below 10mm and return to pre-removal conditions after work is completed
Plant				
Productivity, Health and Vigor of Riparian Vegetation	Riparian vegetation (especially trees) have been broken or blown down as result of wind. Natural regeneration will occur in areas where the canopy has been opened to sunlight	Some standing trees along one side of channel and some fallen trees will be removed for heavy equipment access and hauling out debris. Natural regeneration will occur in areas where the canopy has been opened to sunlight following debris removal	No trees will be disturbed by removal. Natural regeneration will occur in areas where the canopy has been opened to sunlight	Some standing trees along both sides of channel and some fallen trees will be removed for heavy equipment access and hauling out debris. Natural regeneration will occur in areas where the canopy has been opened to sunlight following debris removal
Productivity, Health and Vigor of Stream Aquatic	Aquatic plants are limited to filamentous algae and phytoplankton due to	Removal of debris will not significantly impact aquatic vegetation. Some	Stream aquatic growth will be the same as existing condition with excessive	Removal of debris will not significantly impact aquatic vegetation. Some

Vegetation	limited water in the stream and poor water quality. Very little rooted submergent or emergent vegetation.	decrease in algae from improved flow and slight increase in submergent vegetation with clearer water conditions following removal	algae growth and limited submergent vegetation	decrease in algae from improved flow and slight increase in submergent vegetation with clearer water conditions following removal
Animal				
Inadequate Cover/Shelter for Stream Fisheries (also see SVAP under resource concerns for water)	Abundant fish cover and shelter is provided by downed trees, branches, and other debris in the stream channel and by overhanging canopy. Hurricane debris contributed to the amount of available cover. Stream is ephemeral and	Hurricane deposited debris will be removed and result in less instream cover and reduced shading from overhanging cover on the access side of channel, but adequate amounts will remain. Water quantity will remain as the most limiting factors, water quality for fisheries will slightly improve	Fish cover and shelter provided by downed trees, branches, and overhanging canopy will remain the same as existing conditions. Water quality and quantity will remain the most limiting factors for fisheries	Hurricane deposited debris will result in less instream cover and reduced shading from overhanging branches on both sides of channel, but adequate amounts will remain. Water quantity will remain as a limiting factor and water quality for fisheries will slightly improve
Inadequate Cover/Shelter for Wildlife along Stream Corridor	Riparian forest buffers are extensive in undeveloped segments of the stream channel. Buffers and travel corridors are limited in areas of urban development	There will be a slight reduction in cover along one side of the channel where some trees and cover will be removed for access in the forested areas. There will be no impact in the urban areas that are already devoid of cover	Extensive riparian forest buffers will remain in undeveloped segments of the stream channel. Buffers and travel corridors will remain limited in areas of urban development	There will be a reduction in cover along both sides of the channel where some trees and cover will be removed for access in the forested areas. Regeneration will restore cover in short amount of time. There will be no impact in the urban areas that are already devoid of cover
Other				
Aesthetics	Interspersed trees and natural areas in proximity to homes results in fairly attractive landscape except for impacts of three and property damage	Access will reduce the amount of forest cover on one side of channel in forested segments, but will not have a noticeable impact on the overall urban environment.	The landscape will remain the same except for any changes that may be caused by flooding	Access will reduce the amount of forest cover on both sides of channel in forested segments, but will not have a noticeable impact on the overall urban environment.
Mosquito and Insect Vectors	There are a few small pools of stagnant water that provide habitat for mosquitos.	The number of stagnant pools providing habitat for mosquito will be reduced.	The stagnant pools providing habitat for mosquitos will remain the same or increase following flooding	The number of stagnant pools providing habitat for mosquito will be reduced.

Section 2E Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.	Poor Water Quality, Low DO, High BOD	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.	Decreased water quality. Increased blockage and flooding	Improved water quality. CWA 404 Permit required. Water Quality Certification possible.
Coastal Zone Management Areas	N/A	N/A	N/A	N/A
Coral Reefs	N/A	N/A	N/A	N/A
Cultural Resources	Use FOTG guidance. State level review needed	Same as existing	Same as existing	Same as existing
Endangered and Threatened Species	Use FOTG guidance USFWS/LDWF list shows species in parish, but none are likely in project area	No impacts	No impacts	No impacts
Environmental Justice	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area	Not a factor in this project area
Essential Fish Habitat	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area	No essential fish habitat within this project area
Fish and Wildlife Coordination	No stream modification proposed	Will coordinate if issues arise in CWA 404 permit application process	N/A	Will coordinate if issues arise in CWA 404 permit application process
Floodplain Management	Project boundary is within 100 year floodplain	Improve drainage and reduce level of flooding to pre hurricane conditions	N/A	If selected, project will improve drainage and reduce level of flooding to pre-storm conditions
Invasive Species	Chinese Tallow trees along channel in several segments	Will remove some invasive trees at access locations and allow increased control opportunities	Will likely increase	Will remove some invasive trees at access locations and allow increased control opportunities
Migratory Birds	Provides habitat for neotropical migrants	Slightly reduce habitat for neotropical migrants where trees are removed	Continue to provide same level of habitat	Slightly reduce habitat for neotropical migrants where trees are removed
Natural Areas	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area	Use FOTG guidance. No natural areas identified in project area
Prime and Unique Farmlands	Use FOTG guidance and soil survey. Gy soil occurs in project area Gy soil project area, but not prime in urban area	Gy soil occurs in project area, but not prime when in urban area	Gy soil occurs in project area, but not prime when in urban area	Gy soil occurs in project area, but not prime when in urban area
Riparian Areas	Downed timber has reduced and altered forested riparian habitat	Some standing timber will be removed at access points on one side of channel. Will restore naturally	Downed timber and altered forest riparian area will remain until natural process restores habitat	Some standing timber will be removed at access points on both side of channel. Will restore naturally
Scenic Beauty	Use FOTG guidance. Downed timber has reduced aesthetics of stream and riparian areas	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted	Downed timber in stream and along riparian areas will continue to reduce aesthetics.	Stream aesthetics will be restored, Riparian habitat will not be noticeably impacted
Wetlands	Downed timber and debris has altered wetland functions and values	Removal of debris will restore nature wetland functions and values to pre-storm conditions	Wetland functions and values will remain altered.	Removal of debris will restore nature wetland functions and values to pre-storm conditions
Wild and Scenic Rivers	Use FOTG guidance. No listed streams affected by project	No impact on listed streams or rivers	No impact on listed streams or rivers	No impact on listed streams or rivers

Completed By: Steve Tully, BiologistDate: 10/20/2005

DSR NO: 019-05-037R

Section 2F Economic

This section must be completed by each alternative considered (attach additional sheets as necessary).

	Future Damages (\$)	Damage Factor (%)	Near Term Damage Reduction
Properties Protected (Private)			
75 residences (5 east of Park Rd and 70 between Park Rd and N Perkins Ferry Rd)	\$9,000,000	0.10	\$900,000
Properties Protected (Public)			
Moss Bluff Middle School and recreation fields	\$22,000,000	0.01	220,000
Business Losses			
Other			
Total Near Term Damage Reduction \$			1,120,000
Net Benefit (Total Near Term Damage Reduction minus Cost from Section 3)			1,011,000

Completed By: David Williams Date: 10/21/05

D.W.
+ 010,650
1,010,850 RM

DSR NO: 019-05-037R

Section 2G Social Consideration

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?		X	
Is there the potential for loss of life due to damages from the watershed impairment?		X	
Has access to a hospital or medical facility been impaired by watershed impairment?		X	
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)	X		Pollution from trailer park waste treatment plant could contaminate water supply
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		Access to residences by emergency personnel (Fire, police, ambulance) would be limited if future flooding occurs due to watershed impairment.

Completed By: David Williams Date: 10/21/05

Section 2H Group Representation and Disability Information**This section is completed only for the preferred alternative selected.**

Group Representation	Number
American Indian/Alaska Native Female Hispanic	0
American Indian/Alaska Native Female Non-Hispanic	1
American Indian/Alaska Native Male Hispanic	0
American Indian/Alaska Native Male Non-Hispanic	0
Asian Female Hispanic	0
Asian Female Non-Hispanic	4
Asian Male Hispanic	0
Asian Male Non-Hispanic	7
Black or African American Female Hispanic	0
Black or African American Female Non-Hispanic	13
Black or African American Male Hispanic	0
Black or African American Male Non-Hispanic	11
Hawaiian Native/Pacific Islander Female Hispanic	0
Hawaiian Native/Pacific Islander Female Non-Hispanic	0
Hawaiian Native/Pacific Islander Male Hispanic	0
Hawaiian Native/Pacific Islander Male Non-Hispanic	0
White Female Hispanic	6
White Female Non-Hispanic	313
White Male Hispanic	4
White Male Non-Hispanic	293
Total Group	667

Census tract(s) 22.03, Blocks 1005, 1006, 1007, 1008, 1011Completed By: David Williams Date: 10/21/05

Section 2I. Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits:

Access to channel from private properties will require easements/permission to be obtained by sponsor.

404 PERMIT REQUIRED

CWA permit, Water Quality certification possibly needed because of potential of grubbing stumps.

Mitigation Description:

Accessing debris will be from one side of channel. Debris will be removed from project area and disposed of in an approved Landfill. Proposed action will restore hydraulic function downstream wetland and eliminate stagnant pools in channel, reducing vector/disease potential. Action will be completed without interruption to reduce impact to wildlife.

Agencies, persons, and references consulted, or to be consulted:

Corps of Engineers

LA DEQ & LDWF

DSR NO: 019-05-37R

Section 3 Engineering Cost Estimate

Completed By: Rachel Manuel Date: 11/1/2005

This section must be completed by each alternative considered (attach additional sheets as necessary).

Proposed Recovery Measure (including mitigation)	Quantity	Units	Unit Cost (\$)	Amount (\$)
Mobilization/Demobilization	1	LS	NA	\$10,000
Channel Obstruction Removal	5,000	LF	\$19.75	98,750
Seeding, sprigging, mulching	2	AC	\$200	400
Total Installation Cost (Enter in Section 1F)\$				109,150

Unit Abbreviations:

AC Acre
CY Cubic Yard
EA Each
HR Hour
LF Linear Feet
LS Lump Sum
SF Square Feet
SY Square Yard
TN Ton
Other (Specify)

Section 4 NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application

(see instructions on page 10).

Priority Ranking Criteria	Yes	No		Ranking Number Plus Modifier
1. Is this an exigency situation?	X			122
2. Is this a site where there is serious, but not immediate threat to human life?				
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?				
4. Is this site a funding priority established by the NRCS Chief?				
The following are modifiers for the above criteria			Modifier	
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?			no	
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?			no	
c. Will the proposed action or alternatives protect or conserve prime or important farmland?			no	
d. Will the proposed action or alternatives protect or conserve existing wetlands?			yes	
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			yes	
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?			no	

Enter priority computation in Section 1A, NRCS Entry, Funding priority number.

Remarks:

General water quality will be improved over entire reach. Mobile home park waste treatment lagoons have potential to contaminate floodwater if watershed impairment is not removed.

Section 5A Findings

Finding: Indicate the preferred alternative from Section 2 (Enter to Section 1E):

I have considered the effects of the action and the alternatives on the Environmental Economic, Social; the Special Environmental Concerns; and the extraordinary circumstances (40 CFR 1508.27). I find for the reasons stated below, that the preferred alternative:

X Has been sufficiently analyzed in the EWP PEIS (reference all that apply)
Chapter 5.2.2.1.2
Chapter _____
Chapter _____
Chapter _____
Chapter _____

_____ May require the preparation of an environmental assessment or environmental impact statement.
The action will be referred to the NRCS State Office on this date:

NRCS representative of the DSR team

Title: Stephen Tully Date: 10/21/05

Section 5B Comments:

Section 5C

Sponsor Concurrence:

George Wilkinson

Sponsor Representative

DISTRICT BOARD PRESIDENT
Title: GEORGE WILKINSON

Date: 11-3-05

Section 6 Attachments:

- A. Location Map
- B. Site Plan or Sketches
- C. Other (explain)

INSTRUCTIONS FOR COMPLETING THE NRCS-PDM-20, DSR

	Explanation of Requested Item	Who Completes
Section 1	Enter Site Sponsor, Location, Evaluation, Selected Alternative, and Reviewed and Approval Signatures.	NRCS completes with voluntary assistance from Sponsor except for NRCS only portion of Section 1A.
1A	Enter the Date, DSR Number, Project Number. For NRCS only enter Eligible Yes/No, Approved Yes/No, Funding Priority Number, and Limited Resource Area Yes/No.	
1B	Enter Sponsor Name, Address, Telephone, Fax	
1C	Enter site location County, State, Congressional District, Latitude, Longitude, Section, Township, Range, UTM Coordinates, Drainage Name, Reach within drainage, and Damage Description.	
1D	Enter Yes/No and any Remarks for the Site Evaluation information. Any No response means the site is not eligible for EWP assistance and no further information is necessary to complete the DSR. (See NEWPPM 390-502.03 and 390-502-04) Enter Yes/No regarding whether the affected public has been informed of the EWP program.	
1E	Enter the proposed treatment and the cost of installation.	NRCS only.
1F	NRCS Review and Approval.	

	Explanation of Requested Item	Who Completes
Section 2	Use available natural resource, economic, and social, information, including the EWP Programmatic Environmental Impact Statement (PEIS), to <u>briefly</u> describe the effects of the alternatives to the proposed action including the “no action” alternative. The no action alternative is the predicted future condition if no action is taken. Typically, the proposed action and no action are the alternatives considered for EWP recovery measures due to the focus on repairing or preventing damages within a watershed. However, in cases where additional alternatives are considered, include all pertinent information to adequately address the additional alternatives (e.g., proposed action would be bio-engineering for bank stabilization, no action alternative, and an additional alternative may be riprap for bank stabilization). Do not leave blanks where a consideration is not applicable, use NA to indicate the factor was considered but not applicable for the alternative.	NRCS completes with voluntary assistance from Sponsor.
2A	List all resource concerns which are relevant to the area of the proposed action and alternatives. Refer to the National Bulletin 450-5-8 TCH-COMPLETING AND FILING MEASUREMENT UNITS FOR RESOURCE CONCERNS IN THE FIELD OFFICE TECHNICAL GUIDE (FOTG). Note: the affected area may extend beyond the construction foot print (e. g. where water quality or water rights are affected downstream of the site.)	
2B	Provide a brief description of the present condition of each resource concern listed in 2A. Quantify conditions where possible. Reference accompanying photographic documentation.	
2C	Briefly summarize the practice/system of practices being proposed, as well as the “no action” alternative is predicted future condition if no action is taken.	
2D	Document the efforts of the proposed action and alternatives for the considerations listed in 2A. Reference applicable quality criteria, information in the CPPE, and quantify effects whenever possible. Consider both long-term and short-term effects. Consider any effects which may be individually minor but cumulatively significant at a larger scale or over an extended time period. Clearly define the differences between proposed action, no action, and the other alternatives.	

2E	Enter Special Environmental Concerns for Clean Water Act Waters of the U.S., Coastal Zone Management Areas, Coral Reefs, Cultural Resources, Endangered and Threatened Species, Environmental Justice, Essential Fish Habitat, Fish and Wildlife Coordination, Floodplain Management, Invasive Species, Migratory Birds, Natural Areas, Prime and Unique Farmlands, Riparian Areas, Scenic Beauty, Wetlands, and Wild and Scenic Rivers for each alternative considered. In the case where the selected alternative from Section 5A impacts a Special Environmental Concern, additional information, coordination, permitting or mitigation may be required and adequate documentation should be prepared and attached to the DSR to identify how NRCS or the Sponsor addressed the concern.	
2F	<p>Identify Property Protected both private and public, business losses and other economic impacts considered for each alternative. Enter the dollar value of the potential future damages if no action is taken in the Future Damage (5) column. This would be the estimate of the value lost if the EWP recovery measure is not installed. Use the repair cost or damage dollar method to determine the estimate of future damages. The repair cost method uses the costs to return the impaired property, good, or services based on their original pre-event condition or value. The damage dollar method uses an estimate of the future damage to value (e.g. if the structure is condemned, then enter the value of the structure). Enter the estimated amount based upon existing information or information furnished by the sponsor, contractors or others with specific knowledge for recovery from natural disasters for each alternative considered. Often market values for properties or services can be obtained from personnel at the local county/parish tax assessment office.</p> <p>The DSI team needs to determine the Damage Factor (%) which is a coefficient that indicates the degree of damage reduction to a property that is attributed to the effect of the proposed EWP recovery measures. Use an appropriate estimate of how much of the damage the EWP recovery measure will avoid for the alternative being considered. If the recovery measures from a single site will prevent 100 percent of the damage use 100 percent.</p> <p>The Near Term Damage Reduction is the Future Damage (\$) times the Damage Factor (%). Sum the Near Term Damage Reduction values to calculate the Total Near Term Damage Reduction.</p> <p>Enter the Net Benefit which is computed by subtracting the Cost from section 3 from the total near term damage reduction.</p> <p>The economic section must be completed for each alternative considered. Attach additional sheets as necessary.</p>	
2G	<p>Enter information to describe the potential social impacts and considerations for each alternative. Answer Yes or No and any remarks necessary to adequately address each question.</p> <p>The information may be obtained through interviews with community leaders, government officials or sponsors.</p> <p>Factors such as road closures, loss of water, electricity, access to emergency services are used when answering whether the community as a whole has been impaired.</p> <p>This information is part of the environmental evaluation portion of the DSR but may be pertinent in Section 4 regarding priorities.</p> <p>The Social Considerations Section must be completed for each alternative considered. Attach additional sheets as necessary.</p>	
2H	Enter the Group Representation for the preferred alternative. Use the most recent census tract information based upon where the EWP recovery measures are located.	Sponsor completes.

2I	Enter whether easement, permissions, or permits, and mitigation will require consultation or coordination for the selected alternative (e.g., Clean Water Act section 404 permit, Endangered Species Act section 10 permits, and any State or county permits or requirements). Describe mitigation to be applied that will offset any adverse impacts and attach any documentation from other agencies regarding mitigation requirements.	NRCS completes with voluntary assistance from Sponsor.
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	Explanation of Requested Item	Who Completes
Section 3	Enter Proposed Recovery Measure(s) including Quantity, Units, Unit Cost, and Total Amount Cost. Enter sum of all Proposed Recovery Measure Costs to calculate Total Costs. Enter Total Installation Costs in Section 1F. The Engineering Cost Estimate must be completed for each alternative considered. Attach additional sheets as necessary.	NRCS completes with voluntary assistance from Sponsor.

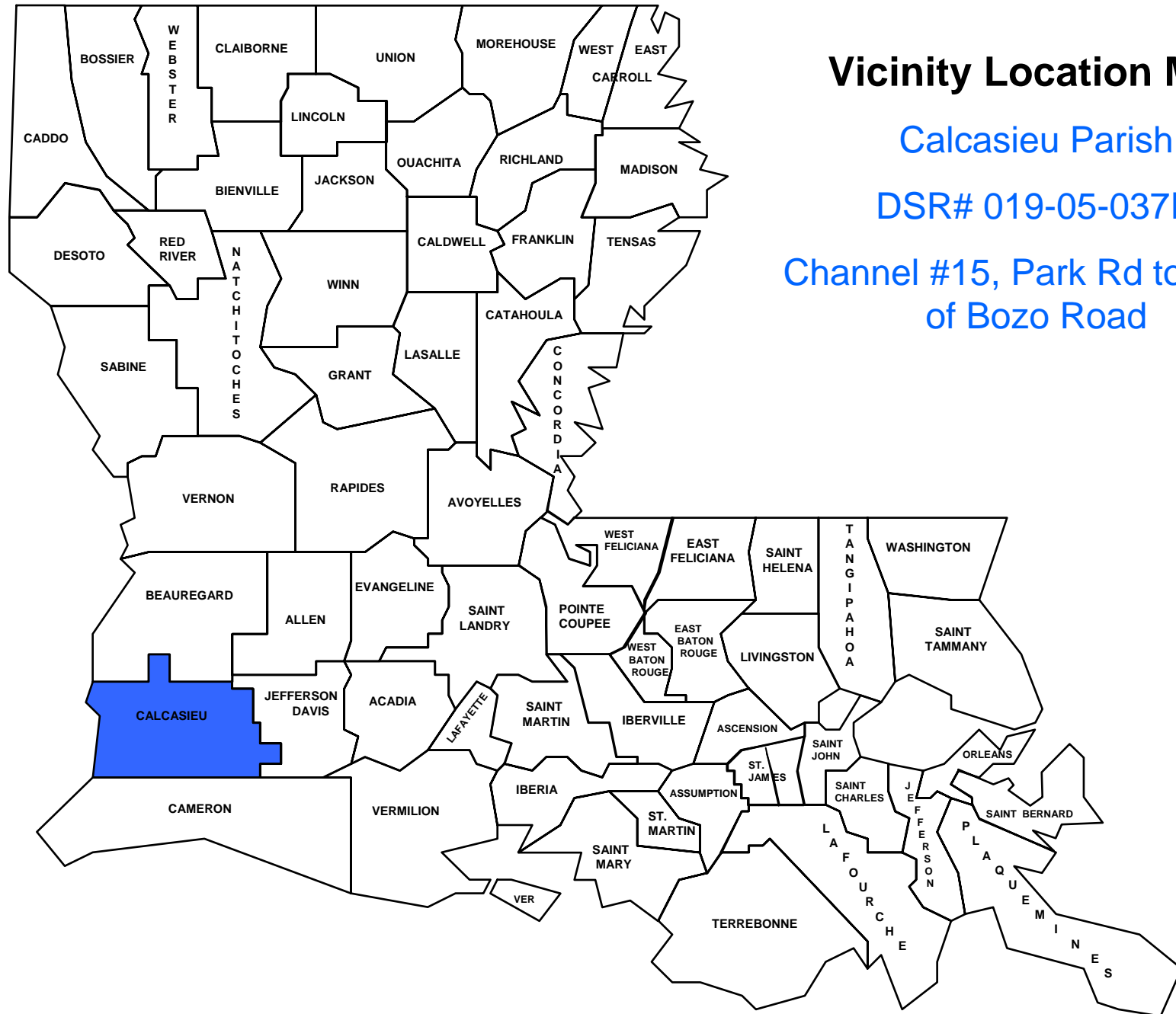
	Explanation of Requested Item	Who Completes
Section 4	This section is used to determine the Funding Priority for the preferred alternative and sequence for initiating recovery measures. Enter Yes/No for questions 1 through 4 and enter the number (exigency 1, serious threat to human life 2, etc.) in the right column, Ranking Number Plus Modifier. Complete the Modifier portion by placing the alphabetic indicator a. through f. in the Modifier column. Complete the Ranking Number Plus Modifier column by entering the alphabetic indicator(s) that exists within the site. The number of the site designates the priority (e.g., a site with a designation of 2 is a higher priority than a site with a designation of 3). The modifiers increase the priority for the same numeric site (e.g., a site with a designation of 1a, would be a higher priority than a site with a designation of 1, a site with a designation of 2bc would be a higher priority than a site designated as 2b). Enter the Funding Priority in Section 1A.	NRCS completes with voluntary assistance from Sponsor.

	Explanation of Requested Item	Who Completes
Section 5	Enter the Findings, Rationale Supporting Findings, NRCS Representative signature and Comments, and Concurrence signature by the Sponsor(s).	NRCS completes.
5A	Indicate the preferred alternative and check the applicable finding being made. The NRCS Representative signs indicating the Finding selected. If the proposed action was adequately addressed in the PEIS, check all appropriate chapter paragraphs.	
5B	Explain the rationale for making the finding. Cite any references, analysis, data, or documents which support the finding. Add any additional pages or documents as necessary. To find that an action has been sufficiently analyzed in an existing NRCS environmental document, the document must cover an adequate description of the action proposed for implementation.	
5C	Enter any additional Comments.	
5D	Sponsor(s) review and concurrence.	Sponsor(s) signature.

Section 6	Include attachments for location map, site sketch or plan and other information as needed.	NRCS completes with voluntary assistance from Sponsor.
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SECTION 6

ATTACHMENTS



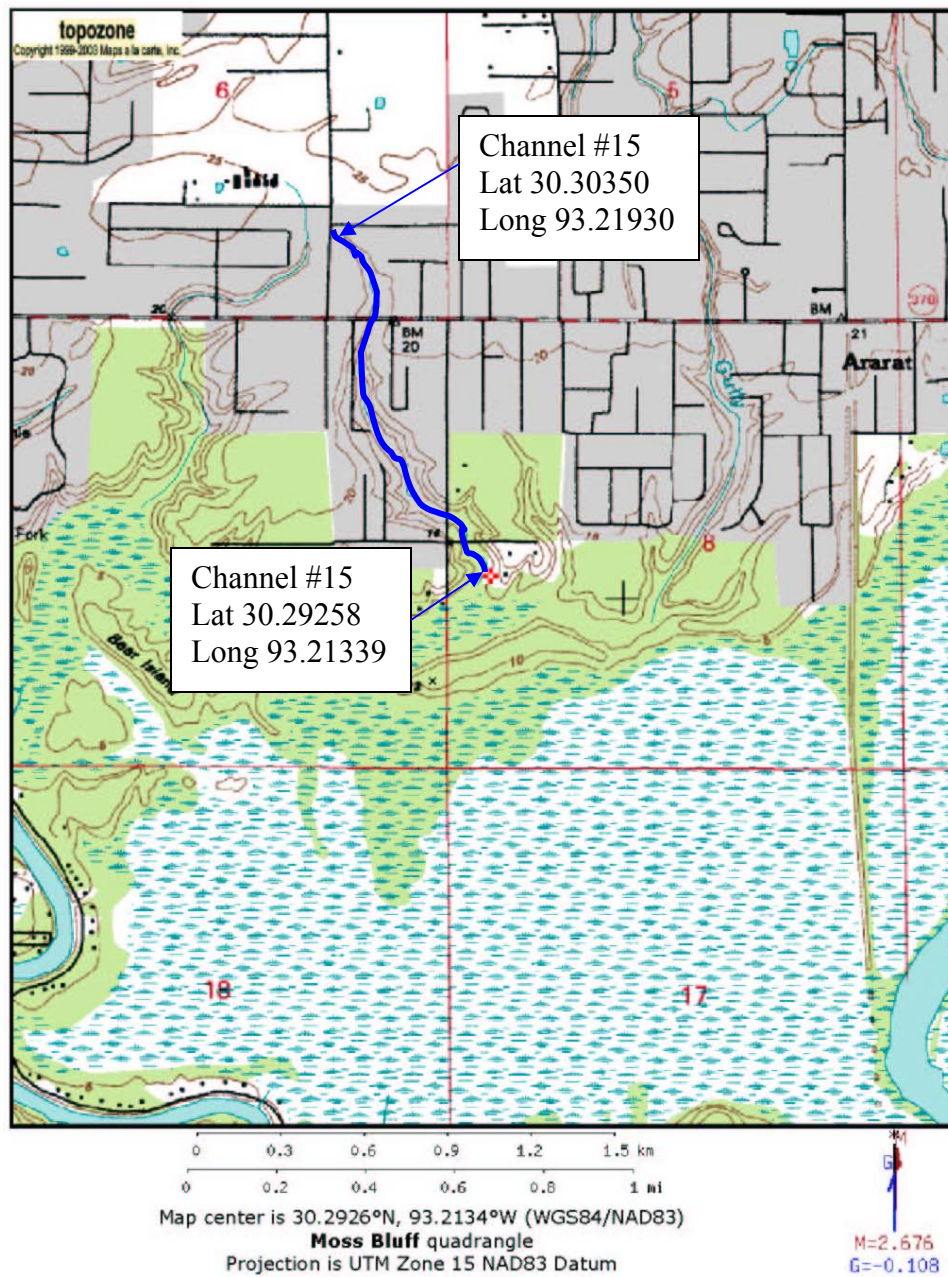
Vicinity Location Map

Calcasieu Parish

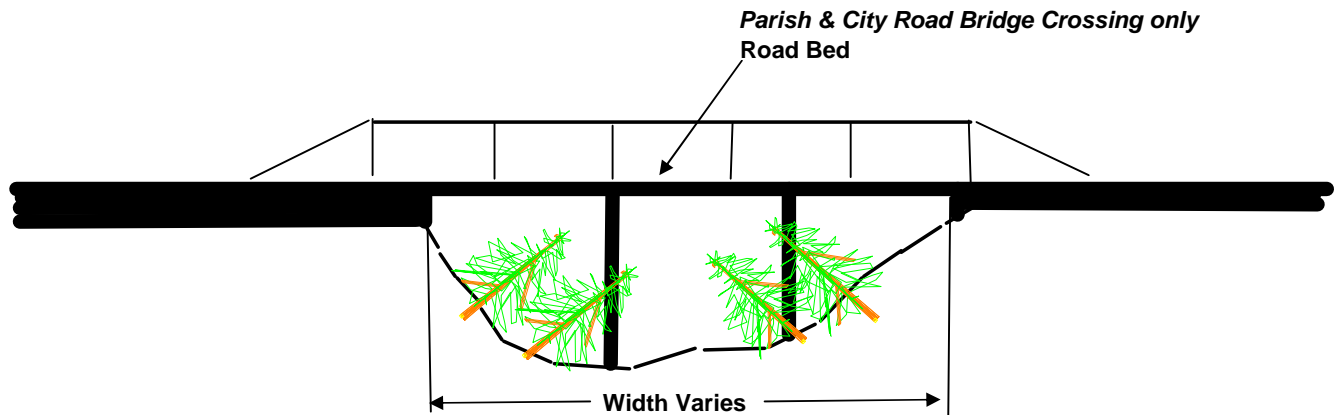
DSR# 019-05-037R

Channel #15, Park Rd to South
of Bozo Road

SITE MAP
DSR 019-05-037R
Channel #15
Park Road to South of Bozo Road
Calcasieu Parish
Estimated Reach Length 5,000 LF



Debris Removal



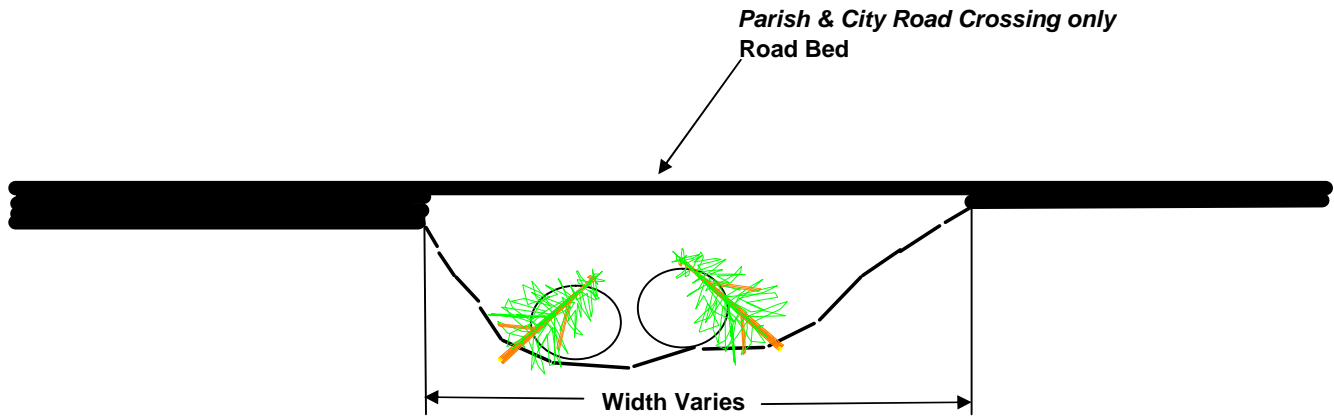
Note: Contract is to remove Debris from upstream and downstream Bridge which includes underside of bridge

Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Bridge Crossing Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

Debris Removal



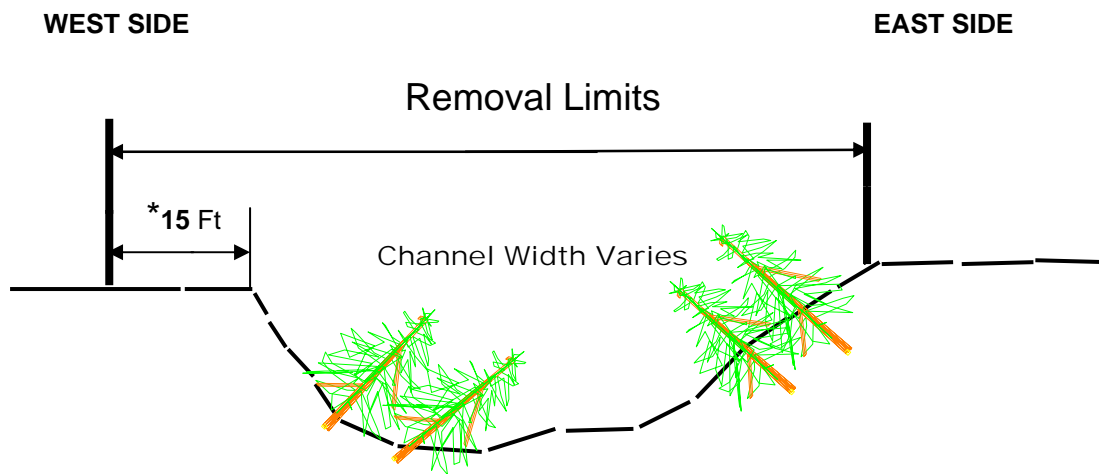
Note: Contract is to remove Debris from upstream and downstream Culverts which includes inside of culverts

Exception: All Crossing which cross State or Federal highways are not included in contract

Typical Road Culvert type Crossing Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

Debris Removal



Typical Section Not to Scale

Notice:
48 Hours Before Digging
Call 1-800-272-3020

***Note:** Rights of way on west side only, except in locations where structures do not permit as concurred in by the COTR

Exception it may be possible that trees which were located outside of the the rightaway may have fallen into the right of way, these trees will be remove which may be located outside of the right of way.

Calcasieu Parish		DSR No: 019-05-037R	Selected Preferred Alternative
Channel # 15, Park Rd to 200yds S of Bozo Rd		Section 5 Engineering Cost Estimate Worksheet Preferred	
Completed By: David Williams (Corrected by Rachel Manuel 11/01/05)			Date: 20-Oct-05

Type of Work:	Debris Removal		
Location of Work:			
Township(s)	Range(s)	Section(s)	Quadrangle(s)
			Moss Bluff SW

	Latitude	Longitude
Downstream Start:	30.29258	-93.21339
Upstream End:	30.30350	-93.21930

Estimated Length of Work Segment (ft):	5,000
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Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$10,000.00	\$10,000
2	Channel Obstruction Removal	5,000	LF	\$19.75	\$98,750
3	Seeding, Sprigging and Mulching	2	AC	\$200.00	\$400
4					\$0
5					\$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost \$109,150

Performance Time:	Production Rate	Segment Length	Production Time	Contract Time
	1000 Ft/Day	5,000 Ft	5.00 Days	5 Days

Estimated Cost of Equipment with Labor	(Per Mike Kennedy's Email 09/22/04)	Cost per LF
Description of Work: Medium		\$19.75

Estimated Cost of Seeding with Labor					
Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	Total Cost
5,000 Ft.	15 Ft.	1	2	\$200	\$400

Comments:
Selected alternative is to remove debris from one side of channel and haul debris away from flood plain.
Access may be difficult in places due to yard fences and residential appurtenances especially on Park Rd.

Calcasieu Parish		DSR No: 019-05-037R	Alternative
Channel # 15, Park Rd to 200yds S of Bozo Rd		Section 5 Engineering Cost Estimate Worksheet Alternative	
Completed By: David Williams (Corrected by Rachel Manuel 11/01/05)			Date: 20-Oct-05

Type of Work: Debris Removal

Location of Work:

Township(s)	Range(s)	Section(s)	Quadrangle(s)
			Moss Bluff SW

	Latitude	Longitude
Downstream Start:	30.29258	-93.21339
Upstream End:	30.30350	-93.21930

Estimated Length of Work Segment (ft): 5,000

Item No.	Proposed Recovery Measure	Quantity	Units	Unit Cost	Amount
1	Mobilization & Demobilization	1	LS	\$10,000.00	\$10,000
2	Channel Obstruction Removal	5,000	LF	\$19.75	\$98,750
3	Seeding, Sprigging and Mulching	4	AC	\$200.00	\$800
4					\$0
5					\$0

Note: Estimated cost of debris removal includes labor and hauling of material to landfill.

Total Estimated Construction Cost \$109,550

Performance Time:

Production Rate	Segment Length	Production Time	Contract Time
1000 Ft/Day	5,000 Ft	5.00 Days	5 Days

Estimated Cost of Equipment with Labor (Per Mike Kennedy's Email 09/22/04)

Description of Work: Medium	Cost per LF \$19.75
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Estimated Cost of Seeding with Labor

Segment Length	Segment Width	No.of Segment	Acres	Cost per Ac	Total Cost
5,000 Ft.	15 Ft.	2	4	\$200	\$800

Comments:

Selected alternative is to remove debris from one side of channel and haul debris away from flood plain. Access may be difficult in places due to yard fences and residential appurtenances especially on Park Rd.

DSR # 019-05-378 Channel Obstruction Evaluation

SITE INFORMATION			
Parish: <u>CALCASIEU</u>	Site: <u>#15 Recreation Blvd drainage</u>		
City: <u>MOSS BLUFF</u>	Ditch (unnamed channel)		
Sponsor: <u>District 8, Ward 1</u>	Reach:	From - <u>Marcus Dr. N30.30617 W93.2258</u>	
Date: <u>10/20/08</u>		To - <u>2000 S. of Bay Rd N30.2932</u>	
Evaluation Team: <u>Steve Tully, David Williams</u>	<u>W93-2142</u>		

PHOTO NUMBERS AND BRIEF DESCRIPTION		WAYPOINTS (CIRCLE location and record in Decimal Degrees)	
Photo #	Description	Start Work (D/S end)	N 30.3035
1-20	See attached	Midstream	
		End Work (U/S end)	W 93.2193

NEARBY AND UPSTREAM STRUCTURES (Fill in Numbers, Values, and Size)			
CHURCHES		SCHOOLS	
No. of Churches		No. of Schools	2
HOMESITES		PUBLIC FACILITIES	
No. of Homesites	75	No. of Public Facilities	1 (Ball Field) School
Average Value of Homes (X \$1,000)	125	No. of Businesses	1
		Size of Businesses	(S) M L

STREAM CROSSINGS (CIRCLE type and write material, size and length)		
TYPE	MATERIAL	NUMBER, SIZE, & LENGTH
Bridge		
Culverts	Grass , Concrete	1 Box Culvert under Hwy 378, Concrete under Part Rd
Other or None		6' dia Concrete under Reeves Rd & Bay Rd

UTILITIES (CHECK the location of the utilities in the area and CIRCLE stream orientation)			
	Overhead (Power, Cable, etc.)	U/S	D/S
	Buried (Gas, Sewer, water, etc.)	U/S	D/S
	Elevated Cross channel (Water, Gas, etc.)	U/S	D/S
Remarks: <u>See attached notes</u>			

CHANNEL CHARACTERISTICS (CHECK appropriate box for slope and fill in dimensions information)				FLOW	
SLOPES		DIMENSIONS		Is Water Flowing?	
<input checked="" type="checkbox"/>	1.5 : 1 or steeper	Top Width (ft.)	20'	YES	<input checked="" type="checkbox"/> NO
	1.5 : 1 through 3 : 1 Slope	Bottom Width (ft.)	5'		Is debris accumulating? (i.e. Leaves, Trash)
	Flatter than 3 : 1	Depth (ft.)	<1'	YES	<input checked="" type="checkbox"/> NO

STATEMENT OF PROBLEM (CHECK the boxes as needed, and CIRCLE the size of debris that applies)					
DEBRIS	IN CHANNEL	ACROSS CHANNEL	SIZE OF DEBRIS		BLOCKAGE
					% of X-Section Obstructed:
Pine Trees	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Light	Moderate <input checked="" type="checkbox"/>	Heavy
Hardwoods	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Shrubs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Other (explain) <u>Debris blockage varies from zero to 75% along work area. Property @ risk is mainly in upper portion of reach.</u>					

WORK METHOD AND LOCATION (CHECK the box that best applies)	
<input type="checkbox"/>	Within Channel Floating Equipment (i.e. Barge or Marsh Buggy)
<input type="checkbox"/>	Within Channel Non - Floating Equipment (Excavator/Track-hoe, Spider, etc)
<input checked="" type="checkbox"/>	From Top Banks
ACCESS TO SITE (Explain access issues and possible difficulties)	
<u>Access through yards along Part Rd, through vacant lots along 378. Access side will vary between Hwy 378 to end of reach, but generally from west side.</u>	